

Office of the Secretariat
Commodity Futures Trading Commission
Three Lafayette Centre
1155 21st Street, N.W.
Washington, DC 20581

Pursuant to section 5c(c)(1) of the Commodity Exchange Act, as amended (the 'Act'), and section 41.23 of the regulations promulgated by the Commodity Futures Trading Commission (the 'Commission') under the Act, submitted herewith are contract specifications for a new product or products, as appropriate, (the 'New Product') that will be listed for trading on OneChicago, LLC ('OneChicago'). The New Product will be subject to the Rules set forth in Chapter IX of the OneChicago Rulebook, as supplemented by the specifications supplement attached hereto.

OneChicago hereby certifies that: (a) the security underlying the New Product satisfies the requirements of section 41.21 of the regulations promulgated by the Commission under the Act; (b) if the New Product is physically settled, arrangements are in place with a clearing agency registered pursuant to section 17A of the Securities Exchange Act of 1934 (the 'Exchange Act') for the payment and delivery of the security underlying the New Product; (c) only futures commission merchants, introducing brokers, commodity trading advisors, commodity pool operators or associated persons subject to suitability rules comparable to those of a national securities association registered pursuant to section 15A(a) of the Exchange Act and the rules and regulations thereunder, except to the extent otherwise permitted under the Exchange Act and the rules and regulations thereunder, may solicit, accept any order for, or otherwise deal in any transaction in or in connection with the New Product; (d) dual trading in the New Product is restricted in accordance with section 41.27 of the regulations promulgated by the Commission under the Act; (e) trading in the New Product is not readily susceptible to manipulation of the price of any New Product, nor to causing or being used in the manipulation of the price of any underlying security, option on such security, or option on a group or index including such security, consistent with the conditions for trading of section 41.25 of the regulations promulgated by the Commission under the Act; (f) procedures are in place for coordinated surveillance among OneChicago, any market on which the security underlying a New Product is traded and other markets on which any related security is traded to detect manipulation and insider trading; (g) an audit trail is in place to facilitate coordinated surveillance among OneChicago, any market on which the security underlying the New Product is traded, and any market on which any related security is traded; (h) procedures are in place to coordinate regulatory trading halts between OneChicago and markets on which the security underlying the New Product is traded and other markets on which any related security is traded; and (i) the margin requirements for the New Product will comply with the provisions specified in sections 41.43 through 41.48 of the regulations promulgated by the Commission under the Act.

OneChicago hereby further certifies that the New Product complies with the additional conditions for trading set forth in section 41.25 of the regulations promulgated by the Commission under the Act, and complies with the Act and the regulations thereunder.

Respectfully Submitted,

OneChicago, LLC

Product Listing

Action	Sup. No.	Symbol	Primary Symbol	Primary CUSIP	Mult.	Expiry Cycle	Settlement Type	Settlement Cycle	Dividend Exposure	Regulatory Symbol	Effective Date
NEW	31640	LGND1D	LGND	53220K504	100.000000	SSQQ	PHYS	T+3	NDR	LGND1	20170628

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EXPIRY CYCLE

SSQQ - A monthly expiration cycle that lists two serial months and two following quarters expiring on the third Friday of each month.

SS - A monthly expiration cycle that lists two serial months expiring on the third Friday of each month.

[1-5][M-F] - Signifies the weekly expiration cycle. Weekly contracts are listed for 7 day terms, by the day of the week and the weekday occurrence in the month.

I,J,K,L - Signifies the Friday Future expiration cycle. Friday Future contracts expire on every Friday of the month except the third Friday. Where I is the first Friday, J is the second Friday, K is the fourth Friday, and L is the fifth Friday of the month.

SETTLEMENT TYPE

PHYS - Physical underlying settlement for all components that make up the future listing.

CASH - Cash value settlement for all components that make up the future listing.

SETTLEMENT CYCLE

T+1 - For each underlying security, settlement takes place the 1st business day after expiration.

T+3 - For each underlying security, settlement takes place the 3rd business day after expiration.

DIVIDEND EXPOSURE

TRA - The traditional single stock future product has no adjustments made to the previous day's settlement price.

NDR - On dividend ex-date, the previous day's settlement price is adjusted down for the amount of the declared distributions.

ACTION

NEW - Initial listing announcement. Properties of this product have changed prior to its effective date.

UPDATE - This product has already been announced. Before the effective date, properties of this product have changed.

DELETE - This product has already been announced and will not longer be listed.

EFFECTIVE DATE

When Action is NEW or UPDATE, the effective date is the first available date.

When Action is DELETE, the effective date is the delisting date.

How To Read This Document

POSITION LIMIT

Position limits are stated in contracts of single stock futures. For the purpose of assessing position limits, all positions in SSFs containing the same underlying security with contracts that expire on the same day are aggregated.

Product Definition - Supplement

SUPPLEMENT NO	31640
FUTURE NAME	LGND T3 P NDR
FUTURE SYMBOL	LGND1D
REGULATORY SYMBOL	LGND1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500
<u>UNDERLYING</u>	
SECURITY NAME	Ligand Pharmaceuticals Inc
SECURITY SYMBOL	LGND
SECURITY CUSIP/CINS	53220K504
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000