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**Product Data Sheet**

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Product Name: KYL  
Cat. No.: GC50137

**Chemical Properties**

Cas. No. 676657-00-4

Formula  $C_{74}H_{108}N_{14}O_{17}$  M.Wt 1465.75

Solubility Soluble in DMSO Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

EphA4 receptor tyrosine kinase inhibitor ( $K_d = 0.8 \mu M$ ); inhibits EphA4-EphrinA5 interactions ( $IC_{50} = 6.34 \mu M$ ). Prevents  $A\beta O$  induced synaptic damage, dendritic spine loss and prevents the blocking of LTP in hippocampal CA3-CA1 transmissions. Exhibits a long half life in cell culture media (8 and 12 hours in PC3 and C2C12 media respectively). Neuroprotective.

Lamberto et al (2012) Distinctive binding of three antagonistic peptides to the ephrin-binding pocket of the EphA4 receptor. Biochem. J. 445 47 PMID:22489865 |Vargas et al (2014) EphA4 activation of c-Abl mediates synaptic loss and LTP blockade caused by amyloid- $\beta$  oligomers. PLoS One. 9 e92309 PMID:24658113

**Caution: Product has not been fully validated for medical applications. For research use only.**

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