

KYL acetate(676657-00-4 free base)

## Chemical Properties

CAS No. :

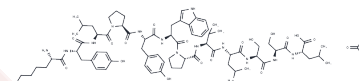
Formula: C76H112N14O19

Molecular Weight: 1525.78

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	KYL acetate is an EphA4 receptor tyrosine kinase inhibitor (Kd = 0.8 $\mu$ M); inhibits EphA4-EphrinA5 interactions (IC50 = 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.
Targets(IC50)	Ephrin Receptor

## Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6554 mL	3.277 mL	6.554 mL
5 mM	0.1311 mL	0.6554 mL	1.3108 mL
10 mM	0.0655 mL	0.3277 mL	0.6554 mL
50 mM	0.0131 mL	0.0655 mL	0.1311 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lamberto et al (2012) Distinctive binding of three antagonistic peptides to the ephrin-binding pocket of the EphA4 receptor. Biochem. J. 445 47 PMID:

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:

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