

CAY10535

## Chemical Properties

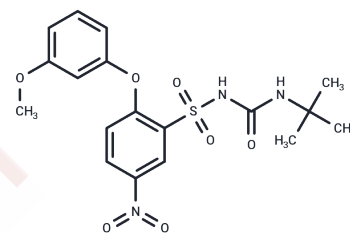
CAS No. : 945716-28-9

Formula: C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>O<sub>7</sub>S

Molecular Weight: 423.44

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	TP $\alpha$ and TP $\beta$ are two isoforms of the human TP receptor, the G protein-coupled receptor (GPCR) that mediates the actions of thromboxane A <sub>2</sub> (TXA <sub>2</sub> ). Although their distinct physiological functions have not been fully elucidated, TP $\beta$ is believed to be responsible for vascular endothelial growth factor-induced endothelial cell differentiation and migration whereas TP $\alpha$ appears to be the predominant isoform expressed in platelets. CAY10535 is a TP receptor antagonist that shows ~20-fold selectivity for TP $\beta$ (IC <sub>50</sub> = 99 nM) relative to TP $\alpha$ (IC <sub>50</sub> = 1,970 nM) in the inhibition of U46619-mediated Ca <sup>2+</sup> mobilization. This compound exhibits relatively poor activity on platelets (IC <sub>50</sub> = 985 nM) when inhibiting U-46619-induced platelet aggregation.
Targets(IC <sub>50</sub> )	Others, Prostaglandin Receptor

## Solubility Information

Solubility	DMF: 20 mg/mL (47.23 mM), Sonication is recommended. Ethanol: 10 mg/mL (23.62 mM), Sonication is recommended. DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.59 mM), Sonication is recommended. DMSO: 20 mg/mL (47.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3616 mL	11.808 mL	23.6161 mL
5 mM	0.4723 mL	2.3616 mL	4.7232 mL
10 mM	0.2362 mL	1.1808 mL	2.3616 mL
50 mM	0.0472 mL	0.2362 mL	0.4723 mL

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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.

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