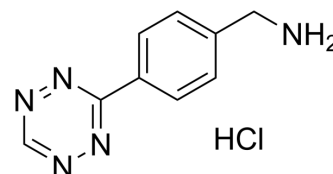


## Tetrazine-Amine monohydrochloride

<b>Cat. No.:</b>	HY-W053709A
<b>CAS No.:</b>	1416711-59-5
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> ClN <sub>5</sub>
<b>Molecular Weight:</b>	223.66
<b>Target:</b>	Biochemical Assay Reagents
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (447.11 mM)  
 DMSO : 62.5 mg/mL (279.44 mM; ultrasonic and warming and heat to 70°C)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	4.4711 mL	22.3554 mL	44.7107 mL
	5 mM	0.8942 mL	4.4711 mL	8.9421 mL	
	10 mM	0.4471 mL	2.2355 mL	4.4711 mL	

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Tetrazine-Amine monohydrochloride is the monohydrochloride form of Tetrazine-Amine (HY-W053709). Tetrazine-amine is a Tetrazine linker that can be used to covalently label living cells by cycloaddition<sup>[1][2]</sup>. Tetrazine-Amine (monohydrochloride) is a click chemistry reagent, it contains a Tetrazine group that can undergo an inverse electron demand Diels-Alder reaction (IEDDA) with molecules containing TCO groups.

### REFERENCES

[1]. Devaraj NK, et, al. Fast and sensitive pretargeted labeling of cancer cells through a tetrazine/trans-cyclooctene cycloaddition. *Angew Chem Int Ed Engl.* 2009;48(38):7013-6.

[2]. Devaraj NK, et, al. Tetrazine-based cycloadditions: application to pretargeted live cell imaging. *Bioconjug Chem.* 2008 Dec;19(12):2297-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA