


## Product Data Sheet

Cas No.:	51-85-4	Cat. No:	PL02673
Product Name:	Cystamine		
Product synonym:	-		
Chemical name:	Cystamine		
MF:	C4H12N2S2	FW:	152.28100
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	C(N)CSSCN		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

Cystamine 是游离硫醇半胱胺的二硫化物形式。Cystamine 是一种转谷氨酰胺酶 (Tgase) 抑制剂，具有口服活性。Cystamine 对 caspase-3 也有抑制活性，IC<sub>50</sub> 值为 23.6 μM。Cystamine 可用于亨廷顿舞蹈病（HD）等多种疾病的研究。

生物活性	Cystamine is the disulfide form of the free thiol, cysteamine. Cystamine is an orally active transglutaminase (Tgase) inhibitor. Cystamine also has inhibition activity for caspase-3 with an IC <sub>50</sub> value of 23.6 μM. Cystamine can be used for the research of several diseases including Huntingtons disease (HD) .
IC <sub>50</sub> & Target[1][2]	Caspase 3 23.6 μM (IC <sub>50</sub> )
体外研究(In Vitro)	Cystamine has inhibition activity for caspase-3 with an IC <sub>50</sub> value of 23.6 μM. Cystamine (0-500 μM; 0-16 h) inhibits recombinant active caspase-3 in a concentration-dependent manner. Cystamine (250 μM; 10 h) robustly increases the levels of glutathione. has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis
体内研究(In Vivo)	Cystamine (oral, i.p.; 112, 225 mg/kg) reduces Tgase activity and GGEL levels, lessens the behavioral and neuropathological severity, and extends survival in R6/2 transgenic HD mice. has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model:

包装储存	Pure form -20°C 3 years; In solvent -80°C 6 months
溶解度数据	In Vitro: DMSO : 100 mg/mL (656.69 mM; Need ultrasonic)配制储备液