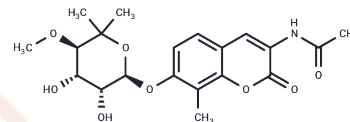


KU-32

## Chemical Properties

CAS No. : 956498-70-7  
 Formula: C<sub>20</sub>H<sub>25</sub>N<sub>0</sub>O<sub>8</sub>  
 Molecular Weight: 407.41  
 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	KU-32 is a novel and novobiocin-based Hsp90 inhibitor. It can protect against neuronal cell death.
Targets(IC50)	HSP
In vitro	KU-32 protects against glucose-induced death of embryonic DRG (dorsal root ganglia) neurons cultured for 3 days in vitro. Treating human islets with KU-32 for 24 hours displays no toxicity. KU-32 improves cellular viability by blocking apoptosis, with a minimum of 2-day exposure. When preincubate in KU-32, isolated human islets release more glucose-stimulated insulin [1] [2].
In vivo	Administered with KU-32 (10 weeks; diabetic BKS-db/db mice) do not display any obvious changes in blood glucose and insulin levels, despite having greater insulin staining/beta cells in the pancreas compared to untreated BKS db/db mice[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4545 mL	12.2726 mL	24.5453 mL
5 mM	0.4909 mL	2.4545 mL	4.9091 mL
10 mM	0.2455 mL	1.2273 mL	2.4545 mL
50 mM	0.0491 mL	0.2455 mL	0.4909 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

Farmer K, et al. KU-32, a novel drug for diabetic neuropathy, is safe for human islets and improves in vitro insulin secretion and viability. *Exp Diabetes Res.* 2012;2012:671673.

Urban MJ, et al. Inhibiting heat-shock protein 90 reverses sensory hypoalgesia in diabetic mice. *ASN Neuro.* 2010 Aug 11;2(4):e00040.

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