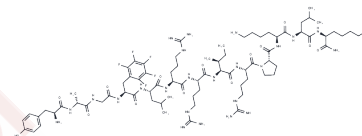


## Dafphedyn

## Chemical Properties

CAS No. :	111846-43-6
Formula:	C76H124F5N25O14
Molecular Weight:	1706.95
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Dafphedyn, [D-Ala <sup>2</sup> , (F <sup>5</sup> ) Phe <sup>4</sup> ]-dynorphin 1-13-NH <sub>2</sub> (DAFPHEDYN) is an effective analog of strong endorphin 1-13 and produces diuretic and deep analgesia when administered intravenously in rats.
Targets(IC50)	Others,Opioid Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5858 mL	2.9292 mL	5.8584 mL
5 mM	0.1172 mL	0.5858 mL	1.1717 mL
10 mM	0.0586 mL	0.2929 mL	0.5858 mL
50 mM	0.0117 mL	0.0586 mL	0.1172 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

- Walker JM, Coy DH, Young EA, Baldrighi G, Siegel SF, Bowen WD, Akil H. [D-Ala<sup>2</sup>, (F<sup>5</sup>) Phe<sup>4</sup>]-dynorphin 1-13-NH<sub>2</sub> (DAFPHEDYN): a potent analog of dynorphin 1-13. *Peptides*. 1987 Sep-Oct;8(5):811-7. PubMed PMID: 2893357.
- Gosnell BA, Majchrzak MJ, Krahn DD. Effects of preferential delta and kappa opioid receptor agonists on the intake of hypotonic saline. *Physiol Behav*. 1990 Mar;47(3):601-3. PubMed PMID: 1972796.
- Kostrzewa RM, Brus R, Coy DH, Criswell H, Coogan PS, Kastin AJ. D-Ala<sup>2</sup>,F<sup>5</sup>Phe<sup>4</sup>-dynorphin amide, an opiate with analgesic and toxic properties. *Pol J Pharmacol Pharm*. 1992 Mar-Apr;44(2):109-20. PubMed PMID: 1357636.
- Solin AV, Lyashev AY, Lyashev YD. Effects of Opioid Peptides on Changes in Lipid Metabolism in Rats Subjected to Swimming Stress. *Bull Exp Biol Med*. 2017 Jan;162(3):313-315. doi: 10.1007/s10517-017-3603-7. Epub 2017 Jan 14. PubMed PMID: 28091903.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481