

Factor XIII inhibitor

Product No. ADG575

Description

Ac-(D)-Asp-MA-Nle-Nle-Leu-Pro-Trp-Pro-OH is a site specific irreversible inhibitor of plasma transglutaminase (factor XIII, FXIII). Peptidic inhibitor containing an electrophilic Michael acceptor (MA) warhead.

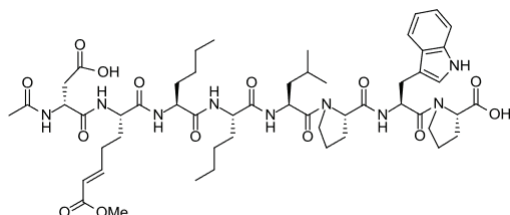
The inhibitor shows 30-fold selectivity for FXIII compared to tissue transglutaminase:

IC50= 100 nM
 (FXIII, using fluorescent Assay Substance A101)⁽¹⁾

IC50= 3000 nM
 (TG2, using fluorescent Assay Substance A101)⁽¹⁾

Molecular Formula: C₅₃H₇₇N₉O₁₄

Chemical Structure:



Molecular Weight: 1064.23

Purity by HPLC: >95 % (214 nm)

Distributed by:

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Presentation

5 mg off pale yellow solid powder

Solubility

3.50 mg/ml (3.28 mM) in PBS buffer.

Alternative 10µM in 0.1% (v/v) DMSO / aqueous buffers.

Pre-dissolve e.g. 2.15 mg (2.02 µmol) in 202 µl DMSO -dilute e.g. 10 µl of that stock solution (10mM) with 9990 µl aqueous buffer to obtain a 10 µM solution. DMSO stock solutions can be stored at -20°C for at least 6 months. To avoid too many freeze-thaw cycles, we strongly recommend storage of aliquots.

Storage

Store at -20°C, desiccate

References

1. A highly sensitive fluorometric assay for determination of human coagulation factor XIII in plasma. Oertel K et al. Anal Biochem. 2007 Aug 15;367(2):152-158.
2. Structure of active coagulation factor XIII triggered by calcium binding: basis for the design of next-generation anticoagulants. Stieler M et al. Angew Chem Int Ed Engl. 2013 Nov 4;52(45):11930-4.

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

For research use only!

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