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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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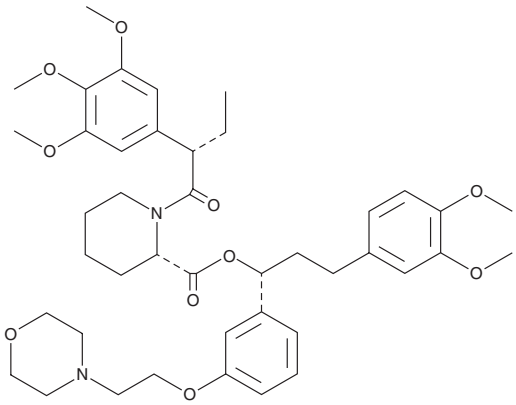
PRODUCT INFORMATION

Shield-1

Item No. 37325



CAS Registry No.:	914805-33-7
Formal Name:	1-[(2S)-1-oxo-2-(3,4,5-trimethoxyphenyl)butyl]-(2S)-2-piperidinecarboxylic acid, (1R)-3-(3,4-dimethoxyphenyl)-1-[3-[2-(4-morpholinyl)ethoxy]phenyl]propyl ester
Synonym:	Shld1
MF:	$C_{42}H_{56}N_2O_{10}$
FW:	748.9
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Shield-1 is supplied as a solid. A stock solution may be made by dissolving the shield-1 in the solvent of choice, which should be purged with an inert gas. Shield-1 is soluble in DMSO.

Description

Shield-1 is a protein stabilizing ligand that prevents the proteosomal degradation of proteins fused to FK-506 binding protein 1A (FKBP12) containing a leucine-to-proline substitution at position 106 ($FKBP12^{L106P}$).[1] It displays specific binding for the destabilizing domain $FKBP12^{L106P}$ and does not interfere with other measured cell processes. Shield-1 inhibits decreases in fluorescence in NIH3T3 cells stably expressing YFP-$FKBP12^{L106P}$ in a concentration-dependent manner. It increases secretion of IL-2-$FKBP12^{L106P}$ in HCT116 cells stably expressing IL-2-$FKBP12^{L106P}$ when used at a concentration of 1 µM.[2] *In vivo*, shield-1 (5 and 10 mg/kg every two days) reduces tumor volume in a mouse xenograft model using HCT116 cells stably expressing IL-2-$FKBP12^{L106P}$.

References

1. Banaszynski, L.A., Chen, L.-c., Maynard-Smith, L.A., *et al.* A rapid, reversible, and tunable method to regulate protein function in living cells using synthetic small molecules. *Cell* **126(5),** 995-1004 (2006).
2. Banaszynski, L.A., Sellmyer, M.A., Contag, C.H., *et al.* Chemical control of protein stability and function in living mice. *Nat. Med.* **14(10),** 1123-1127 (2008).

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