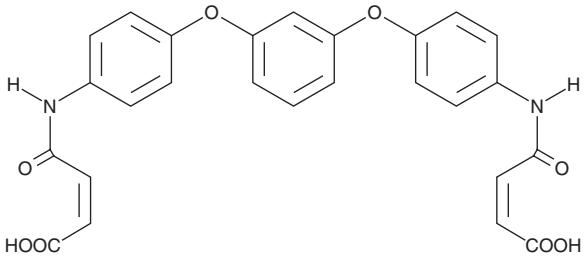
PRODUCT INFORMATION

H2L5186303

Item No. 14663

CAS Registry No.:	139262-76-3
Formal Name:	(Z,Z)-4,4'-[1,3-phenylenebis(oxy-4,1-phenyleneimino)]*bis*[4-oxo-2-butenoic acid
MF:	$C_{26}H_{20}N_2O_8$
FW:	488.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 298 nm
Supplied as:	A crystalline 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

H2L5186303 is supplied as a crystalline solid. A stock solution may be made by dissolving the H2L5186303 in the solvent of choice, which should be purged with an inert gas. H2L5186303 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). The solubility of H2L5186303 in these solvents is approximately 15 and 20 mg/ml, respectively.

H2L5186303 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, H2L5186303 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. H2L5186303 has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

H2L5186303 is a selective lysophosphatidic acid 2 (LPA_2) receptor antagonist (IC_{50} = 9 nM in a LPA-elicited calcium mobilization assay).[1] It inhibits LPA_1 and LPA_3 at much higher concentrations (IC_{50}s = 27,354 and 4,504 nM, respectively).[1]

Reference

1. Fells, J. I., Tsukahara, R., Liu, J. *et al.* Structure-based drug design identifies novel LPA3 antagonists. *Bioorg. Med. Chem.* **17(21)**, 7457-7464 (2009).

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