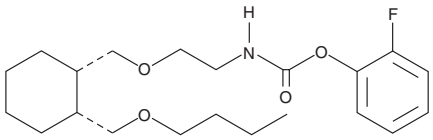
PRODUCT INFORMATION

(+)-AS 115

Item No. 10009650

Formal Name: N-[2-[[(1S,2R)-2-(butoxymethyl)cyclohexyl]methoxy]ethyl]-2-fluorophenyl ester-carbamic acid
MF: $C_{21}H_{32}FNO_4$
FW: 381.5
Purity: ≥98%
UV/Vis.: λ_{max}: 205, 261, 267 nm
Supplied as: A 1 mg/ml solution in methyl acetate
Storage: -20°C
Stability: ≥1 year



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

Laboratory Procedures

(+)-AS 115 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of (+)-AS 115 in these solvents is approximately 30 mg/ml in ethanol and approximately 12 mg/ml in DMSO and DMF.

(+)-AS 115 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methyl acetate solution of (+)-AS 115 should be diluted with the aqueous buffer of choice. (+)-AS 115 has a solubility of approximately0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

KIAA1363 is a 2-acetyl monoacylglyceryl ether (MAGE) hydrolase that is upregulated in aggressive cancers from various tissues.[1] The enzyme catalyzes the hydrolysis of the 2-acetyl MAGE to MAGE and serves as a central enzyme in the PAF and LPA signaling network.[2] AS 115 is a potent and selective inactivator of KIAA1363, displaying an IC_{50} value of 150 nM when tested as a racemic mixture in the invasive ovarian cancer cell line SKOV3.[2] Treatment of SKOV3 cells with 10 µM AS-115 for four hours significantly reduced the formation of MAGE, alkyl-lysophosphatidylcholine, and alkyl-lysophosphatidic acid. The activity of the individual enantiomers of AS 115, *i.e.*, (+)-AS 115 and (-)-AS 115, has not been determined.

References

1. Jessani, N., Liu, Y., Humphrey, M., *et al*. Enzyme activity profiles of the secreted and membrane proteome that depict cancer cell invasiveness. *Proc. Natl. Acad. Sci. USA* **99(16)**, 10335-10340 (2002).
2. Chiang, K.P., Niessen, S., Saghatelian, A., *et al*. An enzyme that regulates ether lipid signaling pathways in cancer annotated by multidimensional profiling. *Chemistry & Biology* **13**, 1041-1050 (2006).

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