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DATASHEET

SL 0101-1

Product overview

Name	SL 0101-1
Cat No	HB0584
Alternative names	SL0101
Biological action	Inhibitor
Purity	>95%
Description	Selective p90 ribosomal S6 kinase inhibitor

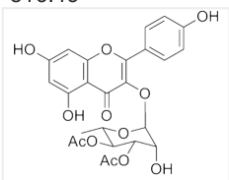
Biological Data

Biological description	Selective p90 ribosomal S6 kinase (RSK) inhibitor (IC_{50} = 89 nM for RSK2). Shows anti-proliferative actions against cancer cell lines.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in ethanol (20mM) or DMSO (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3-[(3,4-Di- <i>O</i> -acetyl-6-deoxy- α -L-mannopyranosyl)oxy]-5,7-dihydro-2-(4-hydroxyphenyl)-4 <i>H</i> -1-benzopyran-4-one
Molecular Weight	516.46
Chemical structure	
Molecular Formula	C ₂₅ H ₂₄ O ₁₂
CAS Number	77307-50-7
PubChem identifier	14825856
SMILES	<chem>O=C1C3=C(C=C(O)C=C3O)OC(C4=CC=C(O)C=C4)=C1OC2C(O)C(OC(C)=O)C(OC(C)=O)C(C)O2</chem>
InChIKey	SXOZSDJHGMAEGZ-UHFFFAOYSA-N

References

Identification of the first specific inhibitor of p90 ribosomal S6 kinase (RSK) reveals an unexpected role for RSK in cancer cell proliferation.

Smith JA *et al* (2005) Cancer Res 65(3)

PubMedID [15705904](https://pubmed.ncbi.nlm.nih.gov/15705904/)

Inhibition of RSK/YB-1 signaling enhances the anti-cancer effect of enzalutamide in prostate cancer.

Shiota M *et al* (2014) Prostate 74(9)

PubMedID [24740858](#)

The selectivity of protein kinase inhibitors: a further update.

Bain J *et al* (2007) Biochem J 408(3)

PubMedID [17850214](#)
