



Afzelin

Cat. No.:	OB0225LY-0287
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR and HPLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg; 50 mg; 100 mg

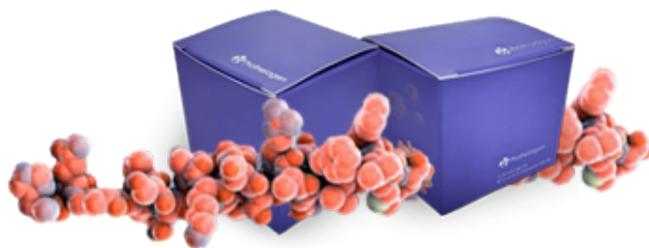
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Afzelin is a natural flavonoid glycoside with antioxidant and anti-inflammatory properties.
Synonym	Kaempferol-3- <i>O</i> -rhamnoside; 482-39-3; Kaempferin; Kaempferol 3-rhamnoside; Kaempferol 3- <i>O</i> -alpha-L-rhamnoside; 4 <i>H</i> -1-Benzopyran-4-one, 3-((6- <i>d</i> -eoxy-alpha-L-mannopyranosyl)oxy)-5,7-dihydroxy-2-(4-hydroxyphenyl)-; 5,7-dihydroxy-2-(4-hydroxyphenyl)-3-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> ,6 <i>S</i>)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxychromen-4-one
CAS No.	482-39-3
Compound CID	5316673
Formula	C ₂₁ H ₂₀ O ₁₀
Formula Weight	432.38

Specification

Relative Density	1.70 g/cm ³
IUPAC Name	5,7-Dihydroxy-2-(4-hydroxyphenyl)-3-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> ,6- <i>i</i> >S)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxychromen-4-one
InChI	InChI=1S/C21H20O10/c1-8-15(25)17(27)18(28)21(29-8)31-20-16(26)14-12(24)6-11(23)7-13(14)30-19(20)9-2-4-10(22)5-3-9/h2-8,15,17-18,21-25,27-28H,1H3/t8-,15-,17+,18+,21-/m0/s1
InChI Key	SOSLMHZOJATCCP-AEIZVZFYSA-N



SMILES string	<chem>C[C@H]1[C@@H]([C@H]([C@H]([C@@H](O1)OC2=C(OC3=CC(=CC(=C3C2=O)O)O)C4=CC=C(C=C4)O)O)O</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Afzelin can be used in cytoprotective studies or play an important role in the exploration of antioxidant mechanisms.

Library Information

Targets	PTEN pathway; Mitochondrial metabolism; Prostaglandin receptor; TNF; MAPK family
Receptors	TNF- α ; PGE; PTEN-induced kinase 1 (PINK1); p38 MAPK
Pathways	Metabolism; Apoptosis; Microbiology/Virology; Immunology/Inflammation; Autophagy ; MAPK; GPCR/G protein; PI3K/Akt/mTOR signaling
Plate Number	AOCL-4
Plate Location	f6
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10 mM DMSO
Ethanol Max Solubility	12 mg/mL; 27.75 mM