



Formula: C₁₆H₁₆O₉

MW: 352.3

Salt: 3H₂O

CAS: 199329-67-4

MDL: MFCD00067659

TNP: TNP00361

MUG TRIHYDRATE; MUG; MUG HYDRATE;
4-METHYLUMBELLIFERYL-BETA-D-GLUCURONIDE HYDRATE;
4-METHYLUMBELLIFERYL-BETA-D-GLUCURONIDE TRIHYDRATE;
4-METHYLUMBELLIFERYL-BETA-D-GLUCURONID-TRIHYDRATE;
4-METHYLUMBELLIFERYL-BETA-D-GLUCOPYRANOSIDURONIC ACID TRIHYDRATE;
4-METHYLUM



LogP: -1.03

LogS:

Acceptors: 9

Donors: 4

Rotation Bonds: 2

Chiral Centers: 5

N+O: 9

LIPINSKY: 4

Info: Fluorescent substrate for B-D-Glucuronidase (GUS) encoded by the gusA gene isolated

from E. coli. Fluorescence assay allows quantitation of GUS activity in protein extracts at peak excitation of 365 nm (UV) and a peak emission of 455 nm (blue). Purity: >9

IUPAC: (2S,3S,4S,6S,5R)-3,4,5-trihydroxy-6-(4-methyl-2-oxochromen-7-yloxy)-2H-3,4,5,6-tetrahydropyran-2-carboxylic acid

Smiles:

Cc1c2ccc(cc2oc(=O)c1)O[C@@H]1O[C@@H]([C@H]([C@@H]([C@H]1O)O)O)C(=O)O

SOURCE: glucopyranosiduronic acid derivative of coumarine

Specification: 4-METHYLUMBELLIFERYL-BETA-D-GLUCURONIDE TRIHYDRATE Chemical Properties:

storage temp. -20C solubility DMSO: 50 mg/mL, clear, colorless to very faintly yellow Safety Information WGK Germany 3 4-METHYLUMBELLIFERYL-BETA-D-GLUCURONIDE TRIHYDRATE Usage And Synthesis 4-METHYLUMBELLIFERYL-BETA-D-GLUCURONIDE TRIHYDRATE