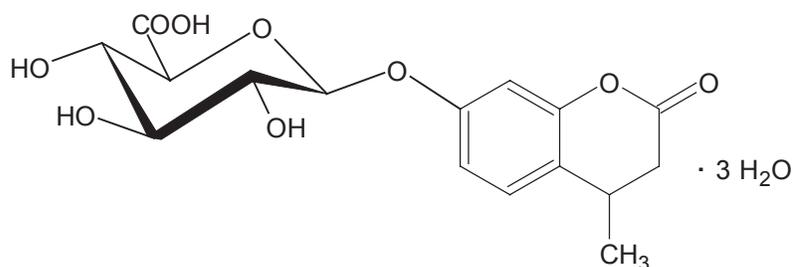




INALCO PHARMACEUTICALS
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DATA SHEET
enzyme substrate

4-METHYLUMBELLIFERYL- β -D-GLUCURONIDE, Trihydrate
(MUG)



Inalco code	1758-1630
C.A.S. R.N.	[6160-80-1]
Applications	Fluorogenic substrate for β -Glucuronidase that, upon enzymatic action, releases blue fluorescence. Useful for the identification of β -Glucuronidase activity in tissues, and in microbiology for the detection of <i>E. coli</i> .
Formula	$C_{16}H_{16}O_9 \cdot 3H_2O$
Molecular Weight	406.4
Appearance	White to off-white powder
Purity (TLC)	$\geq 99\%$
Water Content (K.F.)	$13.5\% \pm 1\%$
Free 4-Methylumbelliferone	$< 0.05\%$
Solubility	Clear and colorless solution (Acetone/water 1:1)
I.R.	Conforming to the structure
Storage	Store at 0 - 4° C.
Toxicity	Toxicity unknown; avoid exposure.