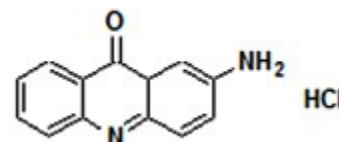


AMAC

Product Description

Name :	2-aminoacridone (AMAC) 2-Amino-9(10H)-acridinone hydrochloride 9-Acridanone-2-amino-hydrochloride
Catalog Number :	FP-485135, 25mg
Structure :	C ₁₃ H ₁₁ ClN ₂ O CAS:[727388-68-3]
Molecular Weight :	MW= 246.70
Soluble in:	DMSO, DMF, CH ₃ OH
Absorption / Emission :	λ_{exc} / λ_{em} (basic CH ₃ OH)= 424 / 530 nm
EC (M⁻¹ cm⁻¹) :	7200



Storage: Room temperature (z) ; protect from moisture; keep from light, especially when in solution.

AMAC is a fluorescent probe used for modifying aldehydes. It is used for labeling carbohydrates in several analysis (PAGEFS/glycoproteins)

Technical and scientific information

Carbohydrate analysis

A method for the analysis of reducing saccharides by PAGE that uses specific fluorophore labeling has been developed. The method is known either as PAGEFS (PAGE of Fluorophore-labeled Saccharides) or in one commercial format as FACE (Fluorophore-Assisted Carbohydrate Electrophoresis). In the PAGEFS method, saccharides having an aldehydic reducing end group are labeled quantitatively with a fluorophore and then separated with high resolution by PAGE. AMAC (and ANTS #FP-46574B) has been used to enable the separation of a variety of saccharide positional isomers, anomers, and epimers. Subpicomolar quantities of individual saccharides can be detected using a sensitive imaging system. Mixtures of oligosaccharides obtained by enzymatic cleavage from glycoproteins can be labeled and electrophoresed to yield an oligosaccharide profile of each protein. AMAC can be used to distinguish unequivocally between acidic and neutral oligosaccharides.

Other applications are possible (saccharide sequence, derivatization for analysis by TLC, chromatography, CE,...).

Applications and protocols may found in the literature.

References

- Casalino-Matsuda SM**, Monzon ME, Conner GE, Salathe M, Forteza RM. J Biol Chem 279, 21606-16 (2004) ; "Role of hyaluronan and reactive oxygen species in tissue kallikrein-mediated epidermal growth factor receptor activation in human airways."
- Erbel PJ**, Barr K, Gao N, Gerwig GJ, Rick PD, Gardner KH. J Bacteriol 185, 1995-2004 (2003) ; "Identification and biosynthesis of cyclic enterobacterial common antigen in Escherichia coli."
- Bentivegna CS**. Aquat Toxicol 61, 95-109 (2002) ; "Advancing monosaccharides as biomarkers: part I. Development of fluorophore-assisted carbohydrate-electrophoresis in Chironomus riparius."

Related products

- ANTS #[FP-46578B](#)
- Carbohydrate analysis/detection kit, [FP-CG4891](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.fluoprobes.com>

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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Info@fluoprobes.com
Technical-support@fluoprobes.com
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213 Avenue J.F. Kennedy - BP 1140
 03103 Montluçon Cedex - France
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