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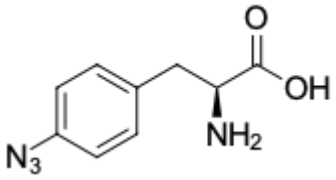
4AZP (4-Azido-L-phenylalanine)

http://www.lumiprobe.com/p/4-azido-l-phenylalanine

4-Azido-L-phenylalanine (4AZP) is an unnatural amino acid analog of L-phenylalanine that contains an azide moiety. 4AZP-labeling is a fast, sensitive, and non-radioactive alternative to the traditional technique for detecting nascent protein synthesis.

4AZP is randomly incorporated into synthesizing protein instead of phenylalanine during translation. The resulting azide-labeled full-length proteins can be detected via copper-catalyzed click reaction (with fluorescent or biotin-labeled alkynes) or copper-free click reaction (with cycloalkynes) and used for subsequent microscopic imaging or purification tasks.



Structure of 4AZP (4-Azido-L-phenylalanine)

General properties

Appearance:	off-white solid
Molecular weight:	206.20
CAS number:	33173-53-4
Molecular formula:	$C_9H_{10}N_4O_2$
IUPAC name:	(2S)-2-Amino-3-(4-azidophenyl)propanoic acid hydrochloride
Solubility:	water, DMSO, DMF
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.