
Product Information Sheet

Ordering Information

Product Number:	12560
Product Name:	BG-NH2 [O6-(4-Aminomethyl-benzyl)guanine]
Unit Size:	1 mg
Storage Conditions:	Freeze (<-15 °C), Desiccated, Avoid Light
Expiration Date:	6 months upon receiving

Chemical and Spectral Properties

Appearance:	Solid
Molecular Weight:	270.30
Soluble In:	DMSO
Excitation Wavelength:	N/A
Emission Wavelength:	N/A

Application Notes

BG-NH2 is a carboxy-reactive building block for preparing of SNAP substrates from the NHS esters or other amine-reactive forms of labels or biological targets. This BG-NH2 building block facilitates the development of various SNAP-tag substrates for labeling SNAP-tag fusion proteins for a wide range of biological applications. AAT Bioquest offers a broad range of amine-reactive fluorescent probes and other Tag probes that can be readily coupled to BG-NH2. The SNAP protein labeling system enables the specific, covalent attachment of virtually any molecule to a protein of interest. The SNAP-tag is a protein based on human O6-alkylguanine-DNA-alkyltransferase (hAGT). SNAP-tag substrates are fluorophores, biotin or beads conjugated to guanine or chloropyrimidine leaving groups via a benzyl linker. In the labeling reaction, the substituted benzyl group of the substrate is covalently attached to the SNAP-tag.