

X-GAL

PG-8240-100mg

X-GAL is a chromogenic substrate used in molecular biology to detect β -galactosidase activity. It produces a blue color when cleaved and is mainly used in blue-white screening for recombinant DNA selection and gene expression studies.

Parameter	Details
Product Name	X-GAL
Formula	$C_{14}H_{15}BrClNO_6$
Concentration	Not applicable
Description	Chromogenic substrate used for detection of β -galactosidase activity
Appearance	White to off-white crystalline powder
Molecular Weight	408.63 g/mol
Solubility	Soluble in DMF and DMSO
pH (1% Solution)	Not applicable
CAS Number	7 240-90-6
Storage Condition	Store at $-20^{\circ}C$, protected from light and moisture
Applications / Uses	Used in blue-white screening, gene expression studies, and β -galactosidase detection in molecular biology

Safety

For research use only. Harmful if inhaled or swallowed. Avoid contact with skin and eyes. Wear gloves, lab coat, and safety glasses. Store at $-20^{\circ}C$, protected from light and moisture. Dispose of as per laboratory regulations.