
Product Data Sheet

Product Name: PI3Kd Human
Cat. No.: GP22584
Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphoinositide 3-kinase p110d/p85a; PI3Kd.		
Formulation	PI3Kd solution in 25mM Tris-HCl, pH 8.0, 50mM NaCl, 0.5mM MgCl ₂ , and 50% glycerol.		

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

The class IA PI3Kd is expressed in endothelial and in white blood cells. Recently it was shown that the inactivation of PI3Kd in bone marrow mast cells (BBMCs) leads to defective stem cell factor-mediated proliferation, adhesion and migration of these cells, and to impaired allergen-IgE induced degranulation and cytokine release. In neutrophils a role for PI3Kd in TNF α -induced signaling was demonstrated by a reduction in Aktphosphorylation and PDK1 activity upon treatment with the d-specific inhibitor IC87114. The catalytic subunit carries a GST-Tag which facilitates the protein's application in typical GST pull-down assays and the heterodimer was purified by affinity chromatography. The molecular weight for p110d chain is 120.2 kDa (without Tag) and the p85a chain 83.5 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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