



## Product Datasheet

<b>Product Name</b>	Phosphoinositide 3-kinase p110d/p85a Human Recombinant
<b>Cata No</b>	CB500885
<b>Source</b>	<i>Sf9 insect cells.</i>
<b>Synonyms</b>	Phosphoinositide 3-kinase p110d/p85a, PI3Kd.

### Description

The class IA PI3K $\delta$  is expressed in endothelial and in white blood cells. Recently it was shown that the inactivation of PI3K $\delta$  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 PI3K $\delta$  in TNF $\alpha$ -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 p110 $\delta$  chain is 120.2 kDa (without Tag) and the

p85 $\alpha$  chain 83.5 kDa.

### Physical Appearance

Sterile filtered liquid formulation.

### Purity

Greater than 95.0% as determined by SDS Page.

### Formulation

PI3Kd solution in 25mM Tris-HCl, pH 8.0, 50mM NaCl, 0.5mM MgCl<sub>2</sub>, and 50% glycerol.

### Stability

PI3Kd although stable at 4°C for 1 week, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**