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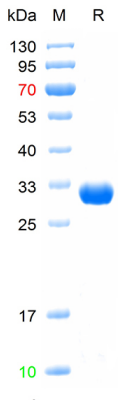
Recombinant human EPOR protein, C-His (HEK293)

Catalog Number:	bs-43588P
Concentration:	>0.5mg/ml
Species:	Human
AA Seq:	25-250/508
Predicted MW:	25.9
Tags:	C-His
Endotoxin:	Not tested
Purity:	>90% as determined by SDS-PAGE
Purification:	AC
Storage:	Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	The erythropoietin receptor (EPOR) is a member of the cytokine receptor family. There are several isoforms including: EPOR-F (full length), EPOR-S (soluble form), and EPOR-T (truncated form). Upon erythropoietin (EPO) binding, the EPOR activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated EPOR appears to have a role in erythroid cell survival. Defects in the EPOR may produce erythroleukemia and familial erythrocytosis. A functional EPOR is found in the cardiovascular system, including endothelial cells and cardiomyocytes, and data suggest that the EPO/EPO receptor system plays an important role in cardiac function. In animal studies, treatment with EPO during ischemia/reperfusion in the heart has been shown to limit the infarct size and the extent of apoptosis.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.