## Recombinant Human Estrogen Receptor a/ER alpha Protein (His Tag)

## Catalog Number: PKSH032405

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Species	Human
Mol Mass	14.4 kDa
Accession	P03372
<b>Bio-activity</b>	Not validated for activity
Properties	
Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}$ C for 3 months
	samples are stable at <-20 C for 5 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Glycine-HCl, 8% Sucrose, 0.05% Tween 80, pH 3.5.
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before
	Tyophinization. Diagonar for to the specific buffer information in the printed manual
	Thease refer to the specific ourier information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	
kDa	MK d
120	
90 60	
40	
30 	
20	

> 95 % as determined by reducing SDS-PAGE.

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## Background

Estrogen Receptor is a major ligand-activated transcription factor belonging to the nuclear hormone receptor superfamily. Estrogen Receptor is composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but they also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters.

## For Research Use Only