

## Pregnostic<sup>®</sup>–PE *Iip* ELISA



### Special features

- Complete ELISA kit
- Rapid assay, takes less than 5 hours, less than 1 hour of hands-on-time
- Standardized and quantitative
- RUO
- Quantification of the ESM-1 in EDTA plasma or in human cell culture supernatants
- Pre-coated ELISA plates
- Ready to use assay

## Background

Endothelial cell-specific molecule 1 (ESM-1) is a unique and pertinent biomarker of vascular endothelial activation/dysfunction in diseases. The variation of blood levels of ESM-1 may reflect endothelial dysfunction in several pathological conditions, including sepsis, cancer, dengue fever and obesity<sup>1</sup>. Higher ESM-1 levels are also found in relation to occurrence of preeclampsia in pregnancy<sup>3-6</sup>. Moreover, ESM-1 levels are significantly lower in pregnant women that develop severe early-onset preeclampsia at week 12 of gestation<sup>2</sup>. This is the first indication that ESM-1 could be a possible early biomarker to assess the risk of developing preeclampsia later on in pregnancy. Early assessment of the risk for preeclampsia can provide an opportunity for accurate management during pregnancy to limit harm to the unborn child.

## Product specifications

**Pregnostic<sup>®</sup>-PE Iip** (product code IQP-304) contains all components required for quantification of human ESM-1 in cell culture supernatants or EDTA plasma. This human Pregnostic<sup>®</sup>-PE Iip ELISA Kit uses the robust and well-described quantitative sandwich immunoassay technique. Our ESM-1 ELISA is to be used for research use only.



### References:

- 1 Sarrazin *et al.* (2010) *J. Cancer Sci. Ther.* 2: 47-52
- 2 Schuitemaker *et al.* *Pregnancy Hypertension* (2018); 12: 58-64
- 3 Chang *et al.* (2015) *Int J Clin Exp Pathol.* 8(11): 14733-14740
- 4 Adekola *et al.* (2015) *J Matern Fetal Neonatal Med.* 28(14):1621-1632
- 5 Cakmak *et al.* (2016) *Clin Exp Hypertens.* 38(2): 137-142
- 6 Hentschke *et al.* (2015) *Cytokine.* 74: 152-156

Item	Description	Regulatory status	Package size	Product code
Pregnostic <sup>®</sup> -PE Iip	Human ESM-1 ELISA Kit for the quantification of human ESM-1 in EDTA plasma and in cell culture supernatants	<span style="border: 1px solid black; padding: 2px;">RUO</span>	96 test	IQP-304

RUO For research use only