



**Karolinska
Institutet**

ROLF LUFT RESEARCH CENTER FOR DIABETES AND
ENDOCRINOLOGY DEPARTMENT OF MOLECULAR
MEDICINE AND SURGERY

**Cytokine-induced beta-cell apoptosis and its regulation
by SOCS-1 and imidazoline compounds**

AKADEMISK AVHANDLING

som för avläggande av medicine doktorexamen vid Karolinska
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