

# Actovegin® instructions

translated from original Russian instructions by Extrapharmacy Online Store

<http://extrapharmacy.ru>

**Name in Cyrillic :** АКТОВЕГИН

## **Pharmacologic effect :**

Actovegin is an antihypoxant, which has three types of effects: metabolic, neuroprotective and microcirculatory.

Actovegin increases oxygen uptake and utilization;

Inositol phospho-oligosaccharides (included in the formulation of Actovegin) positively influence the transport and utilization of glucose, which leads to an improvement in the energy metabolism of cells and a decrease in the formation of lactate in ischemic conditions.

## **Pharmacodynamics:**

There are several ways of implementing the neuroprotective mechanism of the drug action.

Actovegin inhibits the development of apoptosis induced by beta-amyloid (A $\beta$ 25-35).

Actovegin modulates the activity of the nuclear factor kappa B (NF- $\kappa$ B), which plays an important role in the regulation of apoptosis and inflammation in the central and peripheral nervous system.

Another mechanism of action is associated with the nuclear enzyme poly (ADP-ribose) -polymerase (PARP). PARP plays an important role in the detection and repair of damage to single-stranded DNA, but excessive activation of the enzyme can trigger cell death processes in conditions such as cerebrovascular disease and diabetic polyneuropathy.

Actovegin inhibits the activity of PARP, which leads to a functional and morphological improvement in the state of the central and peripheral nervous system.

The positive effects of the drug Actovegin, affecting the processes of microcirculation and endothelium, are an increase in the rate of capillary blood flow, a decrease in the pericapillary zone, a decrease in the myogenic tone of precapillary arterioles and capillary sphincters, a decrease in the degree of arteriovenous shunting blood flow with predominant circulation of blood in the capillary bed and stimulation of endothelial nitric oxide synthase function, which affects the microcirculatory bed.

The effect of Actovegin occurs no later than 30 minutes after its administration. The maximum effect is observed 3 hours after the parenteral and 2-6 hours after oral administration.

## **Indications :**

As part of complex therapy:

- Cognitive impairment, including post-stroke cognitive impairment and dementia;
- violations of peripheral circulation and their consequences;
- diabetic polyneuropathy.

## **Contraindications**

- hypersensitivity to the Actovegin, similar drugs or excipients;
- fructose intolerance, glucose-galactose malabsorption or insufficiency of isomaltase sucrose;
- Children and adolescence under 18 years.

the drug should be administered with caution in pregnancy and during breastfeeding.

## **Dosing and Administration**

Actovegin tablets should be taken orally before meals. The tablet is not chewed, washed down with a small amount of liquid.

Acute period of ischemic stroke (starting from 5th - 7th days) :

2000 mg per day drip up intravenously up to 20 infusions with transition to a tablet form of 2 tablets 3 times per day (1200 mg / day). The total duration of treatment is 6 months.

Dementia : - 2 tablets 3 times per day (1200 mg / day). The total duration of treatment is 20 weeks.

Violations of peripheral circulation and their consequences : 1-2 tablets 3 times per day (600-1200 mg / day). Duration of treatment is from 4 to 6 weeks.

Diabetic polyneuropathy : 2000 mg per day intravenously drip 20 infusions with the transition to the tablet form of 3 tablets 3 times per day (1800 mg / day). Duration of treatment - from 4 to 5 months.

### **Overdose**

According to preclinical studies, Actovegin shows no toxic effects even when the dose is exceeded by 30-40 times compared with the doses recommended for human use. There were no cases of overdose of the drug Actovegin.

### **Pregnancy and breast-feeding**

In pregnancy and during lactation - Actovegin should be used only in cases where therapeutic benefit exceeds the potential risk to the fetus or child.

### **Manufacturer**

Takeda Pharmaceutical, Takeda Austria GmbH , Nycomed

### **Reliable supplier with fast Worldwide shipping**

Extrapharmacy Online Store

<http://extrapharmacy.ru>

### **Storage**

The temperature is not above 25 ° C.

Keep out of the reach of children.

Shelf-life of the drug is 3 years.