A 95 % etanol extract of Orang Aring bark (Fraxinus graffithii Clarke) has been investigated for the effect on CNS depression. Adult male mice of Swiss Webster strain at oral doses of 1.5 g, 2.0 g and 2.5 g/kg body weight was used to find the CNS depresant effect. Time Peak Effect was first measured with the extract dose 2.0 g/kg body weight and thiopental 40 mg/kg body weight intraperitoneal to induce the hipnotic effect. Barbiturate sleeping time for all groups was observed at time peak effect. Motoric activity also observed at time peak effect by the using activity cage and Motoric coordination effect observed by Rota Rod. Further more, it has been verified by regression analysis, the correlation between dose and effect. The results shown that time peak effect extract of Fraxinus griffithii Clarke at the dose 2.0 g/kg body weight was 60 minutes. Duration of action observed Barbiturate sleeping time for CMC Na 1 % was around 2,200 seconds while for all dose of the extract was more than 3,000 seconds. Activity cage measurement shown decreased on motoric activity in 60 – 180 minutes after all dose extract administration. Motoric coordination effect observed by Rota Rod at the dose 3.000 mg/kg body weight shown that all the mice can stand for more than 1 minute at 8 rpm.